



Translation

## PATENT COOPERATION TREATY

**PCT****INTERNATIONAL PRELIMINARY EXAMINATION REPORT**

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2002P00700WO	<b>FOR FURTHER ACTION</b>	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/DE2003/001119	International filing date ( <i>day/month/year</i> ) 04 April 2003 (04.04.2003)	Priority date ( <i>day/month/year</i> ) 17 April 2002 (17.04.2002)
International Patent Classification (IPC) or national classification and IPC B03C 3/68		
Applicant	SIEMENS AKTIENGESELLSCHAFT	

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of \_\_\_\_\_ sheets.

3. This report contains indications relating to the following items:

- I  Basis of the report
- II  Priority
- III  Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV  Lack of unity of invention
- V  Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI  Certain documents cited
- VII  Certain defects in the international application
- VIII  Certain observations on the international application

Date of submission of the demand 12 November 2003 (12.11.2003)	Date of completion of this report 05 February 2004 (05.02.2004)
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International Application No.

PCT/DE2003/001119

## I. Basis of the report

## 1. With regard to the elements of the international application:\*

 the international application as originally filed the description:

pages \_\_\_\_\_ 1-8 \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

 the claims:

pages \_\_\_\_\_ 1-9 \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_, as amended (together with any statement under Article 19) \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

 the drawings:

pages \_\_\_\_\_ 1/1 \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

the sequence listing part of the description:  
 pages \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

## 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

 the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

## 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

 contained in the international application in written form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.4.  The amendments have resulted in the cancellation of: the description, pages \_\_\_\_\_ the claims, Nos. \_\_\_\_\_ the drawings, sheets/fig \_\_\_\_\_5.  This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.  
PCT/DE 03/01119

## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

Novelty (N)	Claims	1-9	YES
	Claims		NO
Inventive step (IS)	Claims	1-9	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-9	YES
	Claims		NO

## 2. Citations and explanations

Reference is made to the following document:

D1: DE 199 62 665 (SIEMENS AG), 5 July 2001 (2001-07-05)

Document D1 is not cited in the international search report.

D1 is considered to be the closest prior art, and discloses the following features of claim 1:

High voltage supply unit for electrostatic precipitators (14), comprising high voltage devices (9, 11, 12) arranged near the electrostatic precipitator (14) (see also column 6, first paragraph), by means of which the electrostatic precipitator (14) can be supplied with high voltage; also comprising measuring heads (19) assigned to the high voltage devices (9, 11, 12) (via electrodes (15, 17)), by means of which measured values and optionally diagnosis data relating to the high voltage devices (9, 11, 12) can be obtained and transmitted; and further comprising control units (18), each assigned to one of the high voltage devices (9, 11, 12), by means of which the assigned high voltage devices (9, 11, 12) can be controlled in open-loop and closed-loop processes according to the requirements and taking

into account measured values and optionally diagnosis data obtained by the measuring heads (19); wherein the measuring heads (192, 3) on the high voltage device side each have an optical fibre interface (34, 37).

The subject matter of claim 1 differs from that of D1 by virtue of the following features:

The measuring heads on the high voltage device side are connected by their optical fibre interfaces to a first local optical fibre network; the control units are connected to each other by a second local optical fibre network; and the local optical fibre network on the high voltage device side and the local optical fibre network on the control unit side are coupled to each other by an optical fibre connection.

Effect

The invention addresses the problem of simplifying the optical fibre connection between the high voltage side and the control unit side by providing an optical fibre network connection between the control units and another optical fibre network connection between the measuring heads on the high voltage side, so that only one optical fibre connection is needed between the two networks.

These features are not found in the available prior art documents as a solution to the problem addressed.

The subject matter of claim 1 therefore meets the requirements of PCT Article 33(2) and (3).

Claims 2 to 9 are dependent on claim 1 and therefore also meet the requirements of PCT Article 33(2) and (3).